

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Claims 1 - 12 (Cancelled)

13. (Currently Amended) A ~~tractor wherein~~ vehicle comprising:

a transmission casing ~~[[is]]~~ arranged in a rear portion of a vehicle body~~[[,]]~~;

a front axle casing ~~[[is]]~~ arranged in the front portion of the vehicle body~~[[,]]~~;

~~and wherein~~ power from an engine is transmitted from an output shaft supported by the transmission casing through a power transmission shaft to an input shaft supported by the front axle casing~~[[,]]~~; and

~~characterized in that~~

a gear casing ~~[[is]]~~ disposed between the transmission casing and the front axle casing~~[[,]]~~ wherein:

the gear casing is detachably attached to a clutch housing disposed before the transmission casing~~[[,]]~~;

the output shaft of the transmission casing and an input shaft of the gear casing are arranged on a same line and connected to each other~~[[,]]~~; and

the input shaft of the front axle casing and an output shaft of the gear casing are arranged on a same line and connected to each other.

14. (Currently Amended) A ~~tractor~~ vehicle as set forth in claim 13, wherein a differential mechanism ~~of traveling vehicle~~ is disposed in the front portion of the ~~tractor~~ vehicle and comprises:

a differential connecting left and right output shafts, supported by the front axle casing, through a pair of planetary gear mechanisms;

a turning hydrostatic transmission, giving difference of rotation speed on the output shafts through the planetary gear mechanisms so as to perform turning of the vehicle; and

a mechanical turning transmission, changing power from the turning hydrostatic transmission in speed and then transmitting the power to the differential.

15. (Currently Amended) A ~~tractor~~ vehicle as set forth in claim 14, wherein the mechanical turning transmission is a hydraulic-clutch type turning transmission.

16. (Currently Amended) A ~~tractor~~ vehicle as set forth in claim 15, wherein the turning transmission is interlockingly connected to a sub transmission disposed in the transmission casing.

17. (Currently Amended) A ~~tractor~~ vehicle as set forth in claim 13, wherein:
power from the engine mounted on the ~~traveling vehicle of the tractor~~ is transmitted to a hydraulic clutch type forward/rearward traveling switching device and
[[the]] a main transmission[[,]];

subsequently the power is transmitted to [[the]]a sub transmission and changed in speed, and then traveling drive is performed[[,]];

[[the]]a turning hydrostatic transmission is actuated so as to control turning of the vehicle[[,]]; and

pressure oil is returned from the turning hydrostatic transmission through an oil cooler to the transmission casing.

18. (Currently Amended) A ~~tractor~~ vehicle as set forth in claim 13, wherein:
power from the engine mounted on ~~the traveling vehicle of the tractor~~ vehicle is transmitted to a hydraulic clutch type forward/rearward traveling switching device and ~~[[the]]~~ a main transmission~~[[,]]~~;

subsequently the power is transmitted to ~~[[the]]~~ a sub transmission and changed in speed, and then traveling drive is performed~~[[,]]~~;

~~[[the]]~~ a turning hydrostatic transmission is actuated so as to control turning of the vehicle~~[[,]]~~; and

pressure oil returning from the turning hydrostatic transmission is supplied through an oil cooler to frictional boards of the hydraulic clutch of the forward/rearward traveling switching device.

19. (Currently Amended) A ~~tractor~~ vehicle as set forth in claim 13, wherein:
a crawler traveling unit is provided ~~[in]~~ on the ~~tractor,~~ vehicle;
the crawler traveling unit is constructed so that a ~~[[trank]]~~ track roller is provided between a drive sprocket and an idler and a crawler belt is wound around the drive sprocket, the idler and the ~~[[trank]]~~ track roller~~[[,]]~~;

a shaft rotatably supporting the ~~[[trank]]~~ track roller is divided into plural parts~~[[,]]~~; and

the divided shafts are connected to each other through an elastic member.

20. (Currently Amended) A ~~tractor~~ vehicle as set forth in claim 19, wherein ends of the divided shafts are shaped so as to engage with each other.

21. (Currently Amended) A ~~tractor~~ vehicle as set forth in claim 20, wherein the ends of the divided shafts are shaped so as to mesh with each other.

22. (Currently Amended) A ~~tractor wherein~~ vehicle comprising:
a transmission casing [[is]] arranged in a rear portion of a vehicle body~~[[,]]~~;
a front axle casing [[is]] arranged in the front portion of the vehicle body~~, and~~;
wherein power from an engine is transmitted from an output shaft supported by the transmission casing through a power transmission shaft to an input shaft supported by the front axle casing~~[[,]]~~; and

~~characterized in that~~

a gear casing [[is]] disposed between the transmission casing and the front axle casing~~[[,]]~~; wherein:

the gear casing is constructed integrally with a flywheel casing disposed behind the engine~~[[,]]~~;

the output shaft of the transmission casing and an input shaft of the gear casing are arranged on a same line and connected to each other~~[[,]]~~; and

the input shaft of the front axle casing and an output shaft of the gear casing are arranged on a same line and connected to each other.

23. (Currently Amended) A ~~tractor~~ vehicle as set forth in claim 22, wherein a differential mechanism ~~of traveling vehicle~~ disposed in the front portion of the ~~tractor~~ vehicle comprises:

a differential connecting left and right output shafts, supported by the front axle casing, through a pair of planetary gear mechanisms;

a turning hydrostatic transmission, giving difference of rotation speed on the output shafts through the planetary gear mechanisms so as to perform turning of the vehicle; and

a mechanical turning transmission, changing power from the turning hydrostatic transmission in speed and then transmitting the power to the differential.

24. (Currently Amended) A ~~tractor~~ vehicle as set forth in claim 23, wherein the mechanical turning transmission is a hydraulic-clutch type turning transmission.

25. (Currently Amended) A ~~tractor~~ vehicle as set forth in claim 23, wherein the turning transmission is interlockingly connected to a sub transmission disposed in the transmission casing.

26. (Currently Amended) A ~~tractor~~ vehicle as set forth in claim 22, wherein:
power from the engine mounted on the ~~traveling vehicle of the tractor~~ is transmitted to a hydraulic clutch type forward/rearward traveling switching device and ~~[[the]]a main transmission[[,]]~~;

subsequently the power is transmitted to ~~[[the]]a sub transmission~~ and changed in speed, and then traveling drive is performed~~[[,]]~~;

[[the]]a turning hydrostatic transmission is actuated so as to control turning of the vehicle[[,]]; and

pressure oil is returned from the turning hydrostatic transmission through an oil cooler to the transmission casing.

27. (Currently Amended) A ~~tractor~~ vehicle as set forth in claim 22, wherein:

power from the engine mounted on ~~the traveling vehicle of the tractor~~ is transmitted to a hydraulic clutch type forward/rearward traveling switching device and [[the]]a main transmission[[,]];

subsequently the power is transmitted to [[the]]a sub transmission and changed in speed, and then traveling drive is performed[[,]];

[[the]]a turning hydrostatic transmission is actuated so as to control turning of the vehicle[[,]]; and

pressure oil returning from the turning hydrostatic transmission is supplied through an oil cooler to frictional boards of the hydraulic clutch of the forward/rearward traveling switching device.

28. (Currently Amended) A ~~tractor~~ vehicle as set forth in one of claims 22, wherein:

a crawler traveling unit is provided ~~in~~ on the tractor[[,]];

the crawler traveling unit is constructed so that a [[trank]]track roller is provided between a drive sprocket and an idler and a crawler belt is wound around the drive sprocket, the idler and the [[trank]]track roller[[,]];

a shaft rotatably supporting the ~~[[trank]]~~track roller is divided into plural parts~~[[,]]~~; and

the divided shafts are connected to each other through an elastic member.

29. (Currently Amended) A ~~tractor~~ vehicle as set forth in claim 28, wherein ends of the divided shafts are shaped so as to engage with each other.

30. (Currently Amended) A ~~tractor~~ vehicle as set forth in claim 29, wherein the ends of the divided shafts are shaped so as to mesh with each other.